REMARKS

Claims 1 and 3-9 are pending in the present application. Claim 1 is herein amended.

Claim 2 is herein cancelled. Claim 9 is newly added. No new matter has been entered.

Claim Rejections - 35 U.S.C. § 102

Claims 1-8 were rejected under 35 U.S.C. § 102(b) as being anticipated by Majima (WO

01/092417 as evidenced by U.S. 6,780,482, which is used as an Equivalent English document).

Favorable reconsideration is requested.

A film having a half value width of not more than 0.22 is afforded when polyester A

(PET) and polyester B (PBT, PTT) are "crudely mixed" where they are dispersed in relatively

large crystal phases. Claim 1 is directed to a film having a half value width of not more than

0.22, and that simultaneously achieves high levels of anti-whitening property (whitening

resistance) and scratch resistance, as compared to the prior art.

An organic phosphorous compound is essential for suppressing compatibility (ester

exchangeability) of polyester A and polyester B which prevents polyester A and polyester B

from being "crudely mixed." However, a film having a half value width of not more than 0.22

cannot be produced merely by adding an organic phosphorus compound. It is also necessary to

set the compression ratio of an extruder used for mixing molten polyester A and polyester B to

1.1-3.8 (preferably 1.3-3.0) in order to "crudely mix" polyester A and polyester B. In Example 3

(now Comparative Example), the conditions of the extruder other than the compression ratio are

almost the same as those in Example 1, but the compression ratio is 4.0. Consequently, the half

value width is 0.24.

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The mixing ratio of polyester A and polyester B is not limited to 40/60. In Example 7,

the mixing ratio of polyester A and polyester B is 85/15, and in Example 8, it is 20/80. In

Examples 7 and 8, the conditions other than the mixing ratio of polyester A and polyester B are

the same as in Example 1, and the half value width is 0.12 and 0.19, respectively.

A. Claims 1-6

Applicant respectfully submits that Majima does not disclose, either expressly or

inherently, a film showing "a half value width of recrystallization peak obtained by a differential

scanning calorimeter (DSC) by lowering temperature of not more than 0.22" as recited in claim 1.

In the Amendment dated September 19, 2008 at pages 5-8 Applicant previously pointed

out that this feature is not inherent in Majima as supported in the Examples and Comparative

Examples in the specification. Some of the Examples in which separate extruders were used

resulted in half value widths less than 0.22. (See Examples 1, 2, 4, 5, 7, 8 and 11.) However,

Examples 3, 9, 10 and Comparative Example 1 demonstrate that even when separate extruders

are used, the resulting half value widths can be greater than 0.22 and that the number of

extruders is not determinative on whether the half value width will satisfy the requirements of

claim 1. (See Tables 1 and 2.)

In response, the Office Action on pages 2-3 provides three reasons for maintaining the

rejection of the claims:

The Office Action compares Example 1 and Comparative Example 1 of the

specification and concludes that for a PET/silica and PBT/phosphorous 40/60 mixture processed

at a compression ratio of 1.5, a temperature less than 285°C is required for satisfying the half

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value width as recited in the claims. The Office Action takes the position that Majima satisfies

the composition and temperature requirement.

The comparison of Example 1 and Comparative Example 1 demonstrates that the half

value width depends on temperature, and that the half value width property is not inherent simply

by satisfying the recited composition. In other words, the half value width property is a separate

limitation from the composition and depends on the processing of the composition.

The Office Action acknowledges that Majima is silent about compression ratio. (Office

Action, page 2.) However, the Office Action does not address the fact that the half value width

depends on the compression ratio. Since the half value width depends on compression ratio as

explained in the present specification, Majima is silent about compression, and evidence has

been submitted demonstrating that Majima does not necessarily satisfy the recited half value

width, Majima does not inherently satisfy the half value width.

(2) The Office Action compares Example 1 to Example 3 and concludes that for a

PET/silica and PBT/phosphorous 40/60 mixture processed at a temperature of 260°C, the

compression ratio must be less than 4.0 for satisfying the half value width as recited in the claims.

(Office Action, page 2.) The Office Action acknowledges that Majima is silent about

compression ratio. But the Office Action takes the position that this result is not commensurate

in scope with the claims since the claims allow for any crystalline polyester and do not require

silica and phosphorous. The Office Action further requires data demonstrating non-inherency

throughout the entire scope of the claim. (Office Action, page 2.)

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Applicant respectfully submits that there is no requirement to demonstrate non-inherency throughout the entire scope of the claim. When relying on inherency, the Patent Office "must

make clear that the missing descriptive matter is necessarily present in the thing described in the

reference, and that it would be so recognized by persons of ordinary skill." MPEP § 2112(IV)

citing In re Robertson, 169 F.3d 743, 745, (Fed. Cir. 1999) (emphasis added). A prima facie

case based in part on inherency can be rebutted "by evidence showing that the prior art products

do not necessarily possess the characteristics of the claimed product." MPEP § 2112.01(I) citing

In re Best, 562 F.2d at 1255 (Fed. Cir. 1985). Thus, Applicant has to demonstrate that the prior

art reference does not necessarily possess the alleged inherent feature. There is no requirement

to demonstrate non-inherency throughout the entire scope of the claim.

To rebut the Office Action's allegation of inherency in Majima, Applicant has provided

evidence demonstrating that films in Majima do not necessarily possess the recited half value

width. A declaration was submitted on December 19, 2007 demonstrating that the half value

width property is not inherent even if the compositional limitations are otherwise satisfied, and

that when using a conventional extruder for processing a PET film, the composition in Majima

itself does not possess the recited half value width.

Furthermore, regarding the silica and phosphorous additives, the cited Examples and

Comparative Examples demonstrate that silica and phosphorous additives are not determinative

components for satisfying the recited half value width. All of the Examples and Comparative

Examples cited by the Examiner (Examples 1, 3 9 and Comparative Example 1) use silica and

phosphorous additives. Thus, the cited Examples and Comparative Examples highlight the

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effects of temperature and compression ratio on the half value width, while keeping the effects of

additives constant.

Therefore, contrary to the assertion in the Office Action, Applicant is not required to

demonstrate non-inherency throughout the entire scope of the claim; Applicant is only required

to demonstrate that the prior art reference does not necessarily possess the alleged inherent

feature. And Applicant has provided evidence demonstrating that the half value width is not

necessarily satisfied in Majima.

(3) The Office Action states that Example 9 has the same processing conditions as in

Examples 1 and 3 in that the temperature was 260°C and the compression ratio was 1.5. It

appears that the Office Action intended to cite Comparative Example 1. The Office Action

further states that Example 9 uses PHT instead of PBT with a mixing ratio of 90/10 and that this

results in a half value width of 0.23 which is outside of the claimed range. The Office Action

concludes that this demonstrates that the claims do not always result in the claimed half value

width. (Office Action, page 2.)

Applicant notes that claim 1 has been amended to limit polyester B to PBT and PTT.

Thus, Example 9 using PHT is not within the scope of the amended claims.

B. Claims 7 and 8

Applicant previously pointed out that Majima does not teach a film having the properties

of a film produced under the conditions recited in these claims, e.g., a half value width of

recrystallization peak of not more than 0.22.

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In response, the Office Action states that these claims are product-by-process claims and

that the Examiner cannot properly ascertain whether a different product is produced for the entire

scope of the claims since all of the Examples of the specification include both silica and

phosphorous. (Office Action, page 3.)

However, claims 7 and 8 do not exclude the use of additives, e.g., phosphorous and silica.

Furthermore, as stated above, the cited Examples and Comparative Examples demonstrate that

silica and phosphorous additives are not determinative components for satisfying the recited half

value width. In all of the cited examples, (Examples 1, 3, 9 and Comparative Example 1), silica

and phosphorous are used which highlights the effects of temperature and compression ratio on

the half value width.

Additionally Cited Reference

The Office Action cites Masuda (US 5,153,302) for teaching compression ratios and L/D

values. (Office Action, page 3.)

of poly-1,4decomposition discloses suppressing the heat Masuda

cyclohexanedimethyleneterephthalate (PCT), and uses an extruder having a compression ratio of

1.5-2.3 and L/D of 20-28. The reference does not describe mixing two kinds of polyesters to

form a film or the problem of whitening of the film, and would not have been obvious to

combine with Majima.

For at least the foregoing reasons, claims 1 and 3-9 are patentable over the cited

references. Accordingly, withdrawal of the rejection of claims 1 and 3-9 is hereby solicited.

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In view of the aforementioned amendments and accompanying remarks, Applicant

submits that the claims, as herein amended, are in condition for allowance. Applicant requests

such action at an early date.

If the Examiner believes that this application is not now in condition for allowance, the

Examiner is requested to contact Applicant's undersigned attorney to arrange for an interview to

expedite the disposition of this case.

If this paper is not timely filed, Applicant respectfully petitions for an appropriate

extension of time. The fees for such an extension or any other fees that may be due with respect

to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,

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